Plan Overview

A Data Management Plan created using DMPMelbourne

Title: Human Scheduling of Perceptual Tasks

Creator: Daniel Little

Principal Investigator: Daniel R. Little

Data Manager: Daniel R. Little, Ami Eidels

Project Administrator: Daniel R. Little

Contributor: Ami Eidels

Affiliation: The University of Melbourne

Funder: Australian Research Council

Template: Australian Research Council Data Management Template 2021

ORCID iD: 0000-0003-3607-5525

Project abstract:

This project aims to develop a novel approach for synthesising how people prioritise information with theories of attention and decision making. Characterising inefficient scheduling in the tradeoff between the difficulty and the cost/benefit of different subtasks will allow the development of a formal computional model that generalises statistical models of rank order data to a theory of the timing of scheduling decisions and task completions. Outcomes include benchmark data from a novel paradigm for studying perceptual decisions and behavior and a
model which can explain and predict human scheduling. This project aims to benefit industry by allowing for the simulation of information prioritisation by human agents in complex environments.

ID: 2947

Start date: 01-01-2024

End date: 31-12-2025

Last modified: 22-11-2023

Grant number / URL: DP240100979

Human Scheduling of Perceptual Tasks

Overview

Expected project start date (DD-MM-YYYY)

01-01-2024

Expected project duration.

- 3 years

Have you applied for or received ethics approval?

- Yes

Please indicate Ethics ID

2023-13688-38016-8

Data Ownership

Will any of the following apply to your research data?
Please indicate all that apply

- Research conducted by graduate researchers
- Collaborations with external parties

Are there any research agreements regarding data ownership in place?

- No

Describe your data ownership arrangements

Data will be jointly owned by Daniel R. Little (University of Melbourne) and Ami Eidels (University of Newcastle). De-identified data will be made publicly available in the interest of open science.

Data Storage

What type of research data and records will you be generating or storing?

The data are text files containing experiment metadata (participant ID, experiment name,
condition information, session number), trial information about the stimulus value (physical or psychological coordinates, or a reference id, and the actual true response - if it exists), the response, whether the response was correct or incorrect, the response time, and other
potentially useful information derived from those values.

Other types of data include:
- simulation or modeling outputs
- experimental and modeling code
- stimulus images
- pre-processed data for analysis

Will you store your digital research data and records on University-provided systems?

- Yes

Please indicate all University systems you will use to store your research data.

- Melbourne Research Cloud
- Shared drive
- Other (please indicate below)
- OneDrive/Sharepoint
- Spartan/HPC Storage

Dropbox

Will the project generate physical research materials or paper-based records?

- Yes

Where will you store these physical research materials or paper-based records?

I've responded yes because it is possible that paper-based records may be created; however, this is unlikely in the case of experimental data (such as consent forms). Any physical experimental materials will be stored in Daniel Little's secure office.
Physical lab notebooks will be stored by the respective researchers.

Data Security

Will the data in the research project fall into any of the following categories?
Please indicate all that apply

- None of the above

What safeguards and security features will protect data from unintended access?

Initial raw data will be stored in a password protected server database. This data does not contain any identifying information. This data will be shared on open source repository along with analysis code.

Data Retention

Will your research data fall into any of the following categories?

- None of the above (Retain for 5 years)

How will you retain your data for the required retention period?

- For the purposes of open science, data will be made avialable on open access repositories such as GitHub or osf.io. This data will likely be available in perpetuity.

Data Publication

Will you make your data available for re-use by others?

- Yes

How will your make your data available for re-use?

- Custom website or server
- Other (please indicate below)

Data will be shared at https://github.com/knowlabUnimelb or at an osf.io website created specifically for the project.

Are there any restrictions (e.g. legal or ethical obligations) to making the data available for re-use?

- No